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LOCUS AA082927 230 bp mRNA linear EST 23-DEC-1997
 DEFINITION zn07f11.s1 Stratagene hNT neuron (#937233) Homo sapiens cDNA clone
 IMAGE:546765 3' similar to TR:G435776 G435776 RETINOBLASTOMA
 BINDING PROTEIN 1. ; , mRNA sequence.

ACCESSION AA082927

VERSION AA082927.1 GI:1625043

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 230)

AUTHORS Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chiapelli,B.,
 Chissoe,S., Dietrich,N., DuBuque,T., Favello,A., Gish,W., Hawkins
 ,M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mardis,E., Moore
 ,B., Morris,M., Parsons,J., Prange,C., Rifkin,L., Rohlfing,T.,
 Schellenberg,K., Soares,M.B., Tan,F., Thierry-Meg,J., Trevaskis,E.,
 Underwood,K., Wohldmann,P., Waterston,R., Wilson,R. and Marra,M.

TITLE Generation and analysis of 280,000 human expressed sequence tags

JOURNAL Genome Res. 6 (9), 807-828 (1996)

MEDLINE 97044478

COMMENT Contact: Wilson RK

Washington University School of Medicine

4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108

Tel: 314 286 1800

Fax: 314 286 1810

Email: est@watson.wustl.edu

WARNING: There is evidence that suggests that the 384-well parent
 plate of this clone contains both human and mouse derived clones.
 Thus, the origin of this clone is uncertain. This caution should be
 kept in mind should you use this clone.

This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.

Possible reversed clone: similarity on wrong strand

Insert Length: 1394 Std Error: 0.00

Seq primer: -40M13 fwd. from Amersham.

FEATURES

source

Location/Qualifiers

1..230

/organism="Homo sapiens"

/db_xref="GDB: 3924955"

/db_xref="taxon:9606"

/clone="IMAGE:546765"

/clone_lib="Stratagene hNT neuron (#937233)"

/dev_stage="hNT neurons"

/lab_host="SOLR (kanamycin resistant)"

/note="Vector: pBluescript SK-; Site_1: EcoRI; Site_2:
 XhoI; Cloned unidirectionally. Primer: Oligo dT.

Differentiated, post mitotic hNT neurons. Average insert
 size: 1.5 kb; Uni-ZAP XR Vector; -5' adaptor sequence: 5'
 GAATTCGGCACCAG 3' -3' adaptor sequence: 5'

CTCGAGTTTTTTTTTTTTTTTTTTT 3'"

BASE COUNT

100 a 39 c 42 g 49 t

ORIGIN

1 cttggtgcat tactgcggat ggaatgtgag atacgatgaa tggattaaag cagataaaat
 61 agtaagacct gctgataaaa atgtgccaaa gataaaacat cggaagaaaa taaagaataa
 121 attagacaaa gaaaaagaca aagatgaaaa atactctcca aaaaactgta aacttcggcg
 181 cttgtccaaa ccaccatttc agacaaatcc atctcctgaa atggtatcca

//

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LOCUS AA167428 514 bp mRNA linear EST 09-MAR-1998
 DEFINITION zp08d12.s1 Stratagene ovarian cancer (#937219) Homo sapiens cDNA
 clone IMAGE:595799 3', mRNA sequence.
 ACCESSION AA167428
 VERSION AA167428.1 GI:1745815
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 514)
 AUTHORS Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
 Krizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin
 ,J., Moore,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B.,
 White,Y., Wylie,T., Waterston,R. and Wilson,R.
 TITLE WashU-NCI human EST Project
 JOURNAL Unpublished (1997)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 1180 Std Error: 0.00
 Seq primer: -40M13 fwd. from Amersham
 High quality sequence stop: 209.
 FEATURES
 source Location/Qualifiers
 1..514
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:595799"
 /clone_lib="Stratagene ovarian cancer (#937219)"
 /sex="female"
 /dev_stage="adult, 64 years"
 /lab_host="SOLR (kanamycin resistant)"
 /note="Vector: Bluescript SK-; Site_1: EcoRI; Site_2: XhoI
 ; Cloned unidirectionally. Primer: Oligo dT. Papillary
 serous carcinoma, isolated from ascites, 64 year old
 caucasian. Average insert size: 0.8 kb; Uni-ZAP XR Vector;
 -5' adaptor sequence: 5' GAATTCGGCAG 3' -3' adaptor
 sequence: 5' CTCGAGTTTTTTTTTTTTTTTTTTT 3'"
 BASE COUNT 183 a 103 c 72 g 152 t 4 others
 ORIGIN
 1 tttcacaac tatggcattt tatttcagag cctttgctta catttgtaca atatattaca
 61 taattcttca ttgtttgcag atcctaatat atactttata gcttttattc tataagcttt
 121 tttcttcaac attttgctgt caacaaatct ttacagtcct gtacaaattt gaataacttg
 181 aaaccatttt caacaaaatt agttactgta agcacacact acaagactga aaatgctttt
 241 cttagaaaag ttgaatgtaa aggattctga cacgtagca tctacaacaa aacgcattga
 301 aattcccacg tcgtattgcc aggaaacaaa gaaaacatgc cagcccatc caaaaaaagt
 361 acacagaact acaattaaaca cagtaaaaca gtctgtacca taaagtactg nggattaaca
 421 gtggccagat atttaaatag cctggatgna cacatcenca atataccaat ggtcttacca
 481 agngngaagg atttaataacc agtggcccaa ccgg

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LOCUS AA169631 240 bp mRNA linear EST 09-MAR-1998
 DEFINITION zo94h03.s1 Stratagene ovarian cancer (#937219) Homo sapiens cDNA
 clone IMAGE:594581 3', mRNA sequence.
 ACCESSION AA169631
 VERSION AA169631.1 GI:1748261
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 240)
 AUTHORS Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S.,
 Krizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin
 ,J., Moore,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B.,
 White,Y., Wylie,T., Waterston,R. and Wilson,R.
 TITLE WashU-NCI human EST Project
 JOURNAL Unpublished (1997)
 COMMENT Contact: Wilson RK
 Washington University School of Medicine
 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu
 This clone is available royalty-free through LLNL ; contact the
 IMAGE Consortium (info@image.llnl.gov) for further information.
 Insert Length: 1626 Std Error: 0.00
 Seq primer: -40M13 fwd. from Amersham
 High quality sequence stop: 177.
 FEATURES
 source Location/Qualifiers
 1..240
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:594581"
 /clone_lib="Stratagene ovarian cancer (#937219)"
 /sex="female"
 /dev_stage="adult, 64 years"
 /lab_host="SOLR (kanamycin resistant)"
 /note="Vector: Bluescript SK-; Site_1: EcoRI; Site_2: XhoI
 ; Cloned unidirectionally. Primer: Oligo dT. Papillary
 serous carcinoma, isolated from ascites, 64 year old
 caucasian. Average insert size: 0.8 kb; Uni-ZAP XR Vector;
 ~5' adaptor sequence: 5' GAATTCGGCACCAG 3' ~3' adaptor
 sequence: 5' CTCGAGTTTTTTTTTTTTTTTTTTT 3'"
 BASE COUNT 41 a 66 c 45 g 87 t 1 others
 ORIGIN
 1 gttgtttacc actgttgctt tatggcttct tttctgcttt tttgatgaac ttctctctcc
 61 ctgagcatct ttactcttt tctgacctgt acaggctttt tcaggatggt ctgggtctgg
 121 ctgattacta ctgcttgagc tcacactggc atcaaaacct gctggcgagc tattcccttc
 181 agactggagg tcttgagct cccagcaac actatccacc tcaattgtgc tancagtttc
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LOCUS AA830588 491 bp mRNA linear EST 07-APR-1998
 DEFINITION oc55c05.s1 NCI_CGAP_GCB1 Homo sapiens cDNA clone IMAGE:1353608 3' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN 1 (HUMAN);, mRNA sequence.
 ACCESSION AA830588
 VERSION AA830588.1 GI:2903687
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 491)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP), Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: Louis M. Staudt, M.D., Ph.D., David Allman, Ph.D., Gerald Marti, M.D.
 cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo, Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 1560 Std Error: 0.00
 Seq primer: -40m13 fwd. ET from Amersham
 High quality sequence stop: 387.
 FEATURES
 source Location/Qualifiers
 1..491
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="IMAGE:1353608"
 /clone_lib="NCI_CGAP_GCB1"
 /tissue_type="germinal center B cell"
 /lab_host="DH10B"
 /note="Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st strand cDNA was prepared from human tonsillar cells enriched for germinal center B cells by flow sorting (CD20+, IgD-), provided by Dr. Louis M. Staudt (NCI), Dr. David Allman (NCI) and Dr. Gerald Marti (CBER). cDNA synthesis was primed with a Not I - oligo(dT) primer [5'-TGTTACCAATCTGAAGTGGGAGCGCCGCCTCATTTTTTTTTTTTTTTTTT-3']. Double-stranded cDNA was ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of the modified pT7T3 vector. Library went through one round of normalization, and was constructed by Bento Soares and M. Fatima Bonaldo."
 BASE COUNT 136 a 100 c 143 g 112 t
 ORIGIN
 1 accgcgccgc cttcttcccc atctctcccc cgggcctgct ggttttgggg gggagaagga
 61 gagaggggac tctggacgtg ccagggtcag atctgcctc cgagggaagt gcagctgaac
 121 ctggtgtttt agaggatacc ttggtccag agtcatcatg aaggcccttg atgagcctcc
 181 ctatttgaca gtgggcactg atgtgagtgc taaatacaga ggagcctttt gtgaagccaa
 241 gatcaagaca gcaaaaagac ttgtcaaagt caaggtgaca tttagacatg attcttcaac
 301 agtgggaagt caggatgacc acataaaggg ccactaaag gtaggagcta ttgtggaagt
 361 gaagaatatt gatggtgcat atcaggaagc tgttatcaat acactaacag atgcgagttg

421 gtacactgta gtgtttgatg acggagatga gaagacactg agacgatggt cactgtgcat
481 gaaaggagag a

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LOCUS AA772654 448 bp mRNA linear EST 31-DEC-1998
 DEFINITION ai53c03.s1 Soares_parathyroid_tumor_NbHPA Homo sapiens cDNA clone
 1360708 3' similar to gb:S66427 RETINOBLASTOMA BINDING PROTEIN 1
 (HUMAN);, mRNA sequence.
 ACCESSION AA772654
 VERSION AA772654.1 GI:2824437
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 448)
 AUTHORS NCI-CGAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
 TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 JOURNAL Unpublished (1997)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-r@mail.nih.gov
 cDNA Library Preparation: M. Bento Soares, Ph.D., M. Fatima Bonaldo
 , Ph.D.
 cDNA Library Arrayed by: Greg Lennon, Ph.D.
 DNA Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: NCI-CGAP clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
www-bio.llnl.gov/bbrp/image/image.html
 Insert Length: 616 Std Error: 0.00
 Seq primer: -40ml3 fwd. ET from Amersham
 High quality sequence stop: 374.

FEATURES
source
 Location/Qualifiers
 1..448
 /organism="Homo sapiens"
 /db_xref="taxon:9606"
 /clone="1360708"
 /clone_lib="Soares_parathyroid_tumor_NbHPA"
 /tissue_type="parathyroid tumor"
 /dev_stage="adult"
 /lab_host="DH10B (ampicillin resistant)"
 /note="Organ: parathyroid gland; Vector: pT7T3D (Pharmacia
) with a modified polylinker; Site_1: Not I; Site_2: Eco
 RI; 1st strand cDNA was primed with a Not I - oligo(dT)
 primer
 [5'-TGTTACCAATCTGAAGTGGGAGCGGCCGACCAATTTTTTTTTTTTTTTTTT
 TTTT-3'], double-stranded cDNA was size selected, ligated
 to Eco RI adapters (Pharmacia), digested with Not I and
 cloned into the Not I and Eco RI sites of a modified pT7T3
 vector (Pharmacia). Library went through one round of
 normalization to a Cot = 5. Library constructed by Bento
 Soares and M.Fatima Bonaldo. RNA from sporadic parathyroid
 adenomas was kindly provided by Dr. Stephen Marx, National
 Institute of Diabetes and Digestive and Kidney Diseases,
 NIH."

BASE COUNT 125 a 88 c 131 g 104 t
 ORIGIN

```

1  cccatctctc ccccgggcct gctggttttg gcggggagaa ggagagaggg gactctggac
61  gtgccagggg cagatctcgc ctccgaggaa ggtgcagctg aacctggtgt tttagaggat
121 accttggtcc cagagtcatc atgaaggccc ttgatgagcc tccctatttg acagtgggca
181 ctgatgtgag tgctaaatac agaggagcct tttgtgaagc caagatcaag acagcaaaaa
241 gacttgtcaa agtcaagggt acatttagac atgattcttc aacagtggaa gttcaggatg
301 accacataaa gggcccacta aaggtaggag ctattgtgga agtgaagaat cttgatgggtg
361 catatcagga agctgttatc aataaactag cagatgagag ttggtacact gtagtttttg
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421 atgacggaga tgagaagaca ctgagacg

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